

SEQUENCE LISTING

<110> BRINGE, NEAL A.  
KARUNANANDAA, KANTHASAMY

<120> OIL BODY ASSOCIATED PROTEIN COMPOSITIONS AND METHODS  
OF USE THEREOF FOR REDUCING THE RISK OF CARDIOVASCULAR DISEASE

<130> MONS:017US

<140> UNKNOWN  
<141> 2004-10-18

<150> PCT/US03/12009  
<151> 2003-04-17

<150> 60/373,460  
<151> 2002-04-18

<160> 18

<170> PatentIn Ver. 2.1

<210> 1  
<211> 35  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 1  
Val Phe Asp Gly Glu Leu Gln Glu Gly Arg Val Leu Ile Val Pro Gln  
1 5 10 15  
Asn Phe Val Val Ala Ala Arg Ser Gln Ser Asp Asn Phe Glu Tyr Val  
20 25 30  
Ser Phe Lys  
35

<210> 2  
<211> 21  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 2  
Leu Arg Met Ile Thr Leu Ala Ile Pro Val Asn Lys Pro Gly Arg Phe  
1 5 10 15  
Glu Ser Phe Phe Leu

<210> 3  
 <211> 25  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 3  
 Ile Phe Val Ile Pro Ala Gly Tyr Pro Val Val Val Asn Ala Thr Ser  
 1 5 10 15

His Leu Asn Phe Phe Ala Ile Gly Ile  
 20 25

<210> 4  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 4  
 Leu Gln Glu Ser Val Ile Val Glu Ile Ser Lys Lys  
 1 5 10

<210> 5  
 <211> 12  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 5  
 Gln Gln Gln Glu Glu Gln Pro Leu Glu Val Arg Lys  
 1 5 10

<210> 6  
 <211> 7  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 6  
Asn Gln Tyr Gly His Val Arg  
1 5

<210> 7  
<211> 19  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 7  
Ala Ile Val Ile Leu Val Ile Asn Glu Gly Asp Ala Asn Ile Glu Leu  
1 5 10 15

Val Gly Leu

<210> 8  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 8  
Asn Ile Leu Glu Ala Ser Tyr Asp Thr Lys Phe Glu Glu Ile Asn Lys  
1 5 10 15

<210> 9  
<211> 16  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 9  
Val Lys Phe Ile Thr Ala Ala Thr Ile Gly Ile Thr Leu Leu Leu Leu  
1 5 10 15

<210> 10  
<211> 13  
<212> PRT  
<213> Artificial Sequence

<220>  
<223> Description of Artificial Sequence: Synthetic

# Peptide

<400> 10

Tyr Glu Thr Asn Ser Ser Leu Asn Asn Pro Pro Ser Arg  
1 5 10

<210> 11

<211> 25

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 11

Ile Phe Val Ile Pro Ala Gly Tyr Pro Val Val Val Asn Ala Thr Ser  
1 5 10 15

Asp Leu Asn Phe Phe Ala Phe Gly Ile  
20 25

<210> 12

<211> 226

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
Peptide

<400> 12

Met Thr Thr Gln Val Pro Pro His Ser Val Gln Val His Thr Thr Thr  
1 5 10 15

Thr His Arg Tyr Glu Ala Gly Val Val Pro Pro Gly Ala Arg Phe Glu  
20 25 30

Thr Ser Tyr Glu Ala Gly Val Lys Ala Ala Ser Ile Tyr His Ser Glu  
35 40 45

Arg Gly Pro Thr Thr Ser Gln Val Leu Ala Val Leu Ala Gly Leu Pro  
50 55 60

Val Gly Gly Ile Leu Leu Leu Leu Ala Gly Leu Thr Leu Ala Gly Thr  
65 70 75 80

Leu Thr Gly Leu Ala Val Ala Thr Pro Leu Phe Val Leu Phe Ser Pro  
85 90 95

Val Leu Val Pro Ala Thr Val Ala Ile Gly Leu Ala Val Ala Gly Phe  
100 105 110

Leu Thr Ser Gly Ala Phe Gly Leu Thr Ala Leu Ser Ser Phe Ser Trp  
115 120 125

Ile Leu Asn Tyr Ile Arg Glu Thr Gln Pro Ala Ser Glu Asn Leu Ala  
 130 135 140  
 Ala Ala Ala Lys His His Leu Ala Glu Ala Ala Glu Tyr Val Gly Gln  
 145 150 155 160  
 Lys Thr Lys Glu Val Gly Gln Lys Thr Lys Glu Val Gly Gln Asp Ile  
 165 170 175  
 Gln Ser Lys Ala Gln Asp Thr Arg Glu Ala Ala Ala Arg Asp Ala Arg  
 180 185 190  
 Glu Ala Ala Ala Arg Asp Ala Arg Glu Ala Ala Ala Arg Asp Ala Lys  
 195 200 205  
 Val Glu Ala Arg Asp Val Lys Arg Thr Thr Val Thr Ala Thr Thr Ala  
 210 215 220  
 Thr Ala  
 225

<210> 13  
 <211> 223  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 13  
 Met Thr Thr Val Pro Pro His Ser Val Gln Val His Thr Thr Thr His  
 1 5 10 15  
 Arg Tyr Glu Ala Gly Val Val Pro Pro Ala Arg Phe Glu Ala Pro Arg  
 20 25 30  
 Tyr Glu Ala Gly Ile Lys Ala Pro Ser Ser Ile Tyr His Ser Glu Arg  
 35 40 45  
 Gly Pro Thr Thr Ser Gln Val Leu Ala Val Val Ala Gly Leu Pro Val  
 50 55 60  
 Gly Gly Ile Leu Leu Leu Leu Ala Gly Leu Thr Leu Ala Gly Thr Leu  
 65 70 75 80  
 Thr Gly Leu Val Val Ala Thr Pro Leu Phe Ile Ile Phe Ser Pro Val  
 85 90 95  
 Leu Ile Pro Ala Thr Val Ala Ile Gly Leu Ala Val Ala Gly Phe Leu  
 100 105 110  
 Thr Ser Gly Val Phe Gly Leu Thr Ala Leu Ser Ser Phe Ser Trp Ile  
 115 120 125

Leu Asn Tyr Ile Arg Glu Thr Gln Pro Ala Ser Glu Asn Leu Ala Ala  
 130 135 140  
 Ala Ala Lys His His Leu Ala Glu Ala Ala Glu Tyr Val Gly Gln Lys  
 145 150 155 160  
 Thr Lys Glu Val Gly Gln Lys Thr Lys Glu Val Gly Gln Asp Ile Gln  
 165 170 175  
 Ser Lys Ala Gln Asp Thr Arg Glu Ala Ala Ala Arg Asp Ala Arg Asp  
 180 185 190  
 Ala Arg Glu Ala Ala Ala Arg Asp Ala Arg Asp Ala Lys Val Glu Ala  
 195 200 205  
 Arg Asp Val Lys Arg Thr Thr Val Thr Ala Thr Thr Ala Thr Ala  
 210 215 220

<210> 14  
 <211> 175  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 14  
 Met Ala Asp Arg Asp Arg Ser Gly Ile Tyr Gly Gly Gly Ala Tyr Gly  
 1 5 10 15  
 Gln Gln Gln Gly Arg Pro Pro Met Gly Glu Gln Val Lys Gly Met Ile  
 20 25 30  
 His Asp Lys Gly Pro Thr Ala Ser Gln Ala Leu Thr Val Ala Thr Leu  
 35 40 45  
 Phe Pro Leu Gly Gly Leu Leu Val Leu Ser Gly Leu Ala Leu Ala  
 50 55 60  
 Ala Ser Thr Val Gly Leu Ala Val Ala Thr Pro Val Phe Leu Leu Phe  
 65 70 75 80  
 Ser Pro Val Leu Val Pro Ala Ala Leu Leu Ile Gly Thr Ala Val Ala  
 85 90 95  
 Gly Phe Leu Thr Ser Gly Ala Leu Gly Leu Gly Gly Leu Ser Ser Leu  
 100 105 110  
 Thr Cys Leu Ala Asn Thr Ala Arg Gln Ala Phe Gln Arg Thr Pro Asp  
 115 120 125  
 Tyr Val Glu Glu Ala Arg Arg Arg Met Ala Glu Ala Ala Ala His Ala  
 130 135 140  
 Gly His Lys Thr Ala Gln Ala Gly His Gly Ile Gln Ser Lys Ala Gln

145	150	155	160
Glu Ala Gly Ala Gly Thr Gly Ala Gly Gly Gly Arg Thr Ser Ser			
	165	170	175

<210> 15  
 <211> 156  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 15  
 Met Ala Asp His His Arg Gly Ala Thr Gly Gly Gly Gly Gly Tyr Gly  
 1 5 10 15  
 Asp Leu Gln Arg Gly Gly Gly Met His Gly Glu Ala Gln Gln Gln Gln  
 20 25 30  
 Lys Gln Gly Ala Met Met Thr Ala Leu Lys Ala Ala Thr Ala Ala Thr  
 35 40 45  
 Phe Gly Gly Ser Met Leu Val Leu Ser Gly Leu Ile Leu Ala Gly Thr  
 50 55 60  
 Val Ile Ala Leu Thr Val Ala Thr Pro Val Leu Val Ile Phe Ser Pro  
 65 70 75 80  
 Val Leu Val Pro Ala Ala Ile Ala Leu Ala Leu Met Ala Ala Gly Phe  
 85 90 95  
 Val Thr Ser Gly Gly Leu Gly Val Ala Ala Leu Ser Val Phe Ser Trp  
 100 105 110  
 Met Tyr Lys Tyr Leu Thr Gly Lys His Pro Pro Ala Ala Asp Gln Leu  
 115 120 125  
 Asp His Ala Lys Ala Arg Leu Ala Ser Lys Ala Arg Asp Val Lys Asp  
 130 135 140  
 Ala Ala Gln His Arg Ile Asp Gln Ala Gln Gly Ser  
 145 150 155

<210> 16  
 <211> 187  
 <212> PRT  
 <213> Artificial Sequence

<220>  
 <223> Description of Artificial Sequence: Synthetic Peptide

<400> 16

Met Ala Asp Arg Asp Arg Ser Gly Ile Tyr Gly Gly Ala His Ala Thr  
 1 5 10 15  
 Tyr Gly Gln Gln Gln Gln Gly Gly Gly Gly Arg Pro Met Gly Glu  
 20 25 30  
 Gln Val Lys Lys Gly Met Leu His Asp Lys Gly Pro Thr Ala Ser Gln  
 35 40 45  
 Ala Leu Thr Val Ala Thr Leu Phe Pro Leu Gly Gly Leu Leu Leu Val  
 50 55 60  
 Leu Ser Gly Leu Ala Leu Thr Ala Ser Val Val Gly Leu Ala Val Ala  
 65 70 75 80  
 Thr Pro Val Phe Leu Ile Phe Ser Pro Val Leu Val Pro Ala Ala Leu  
 85 90 95  
 Leu Ile Gly Thr Ala Val Met Gly Phe Leu Thr Ser Gly Ala Leu Gly  
 100 105 110  
 Leu Gly Gly Leu Ser Ser Leu Thr Cys Leu Ala Asn Thr Ala Arg Gln  
 115 120 125  
 Ala Phe Gln Arg Thr Pro Asp Tyr Val Glu Glu Ala Arg Arg Arg Met  
 130 135 140  
 Ala Glu Ala Ala Ala Gln Ala Gly His Lys Thr Ala Gln Ala Gly Gln  
 145 150 155 160  
 Ala Ile Gln Gly Arg Ala Gln Glu Ala Gly Thr Gly Gly Gly Ala Gly  
 165 170 175  
 Ala Gly Ala Gly Gly Gly Gly Arg Ala Ser Ser  
 180 185

<210> 17

<211> 183

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic Peptide

<400> 17

Met Ala Thr Thr Thr Tyr Asp Arg His His Val Thr Thr Thr Gln Pro  
 1 5 10 15  
 Gln Tyr Arg His Asp Gln His Thr Gly Asp Arg Leu Thr His Pro Gln  
 20 25 30  
 Arg His Glu Gln Gly Pro Ser Thr Gly Lys Ile Met Val Ile Met Ala  
 35 40 45  
 Leu Leu Pro Ile Thr Gly Ile Leu Phe Gly Leu Ala Gly Ile Thr Ser



50

55

60

Ser Asp Gly Tyr Arg Ala Ser Leu Ala Thr Pro Leu Phe Val Ile Phe  
 65 70 75 80

Ser Pro Val Ile Val Pro Ala Met Ile Ala Ile Gly Leu Ala Val Thr  
 85 90 95

Gly Phe Leu Thr Ser Gly Thr Phe Gly Leu Thr Gly Leu Ser Ser Leu  
 100 105 110

Ser Tyr Leu Phe Asn Met Val Arg Arg Ser Thr Met Ser Val Pro Asp  
 115 120 125

Gln Met Asp Tyr Val Lys Gly Lys Leu Gln Asp Val Gly Glu Tyr Thr  
 130 135 140

Gly Gln Lys Thr Lys Asp Leu Gly Gln Lys Ile Gln His Thr Ala His  
 145 150 155 160

Glu Met Gly Asp Gln Gly Gln Gly Gln Gly Gln Gly Gly Lys Glu  
 165 170 175

Gly Arg Lys Glu Gly Gly Lys  
 180

<210> 18

<211> 10

<212> PRT

<213> Artificial Sequence

<220>

<223> Description of Artificial Sequence: Synthetic  
 Peptide

<400> 18

Gln Asn Pro Ser His Asn Lys Cys Leu Arg  
 1 5 10